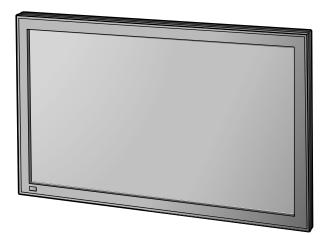
# FUĴITSU

# **USER'S MANUAL**

# 42"/50" WIDE PLASMA DISPLAY

P42VCA10/P42HCA10/P50XCA10/P42VCA20/ P42VCA11/P42HCA11/P50XCA11/P42VCA21/ P42VCA12/P42HCA12/P50XCA12/P42VCA22 WITH OPTIONAL VIDEOBOARD (P-TE1020E)





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Before using the display, read this manual carefully so that you know how to use the display correctly. Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.

Keep this manual where the user can see it easily.

\* Installation and removal require special expertise. Consult your product dealer for details.

English

# FUJITSU GENERAL LIMITED

### **IMPORTANT INFORMATION**

#### IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

# **WARNING:** TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

# FCC NOTICE

- P42VCA10/P42HCA10/P50XCA10/P42VCA20 with optional Videoboard (P-TE1020E): A class A digital device
- P42VCA11/P42HCA11/P50XCA11/P42VCA21 with optional Videoboard (P-TE1020E): A class A digital device
- P42VCA12/P42HCA12/P50XCA12/P42VCA22 with optional Videoboard (P-TE1020E): A class A degital device

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# **IMPORTANT SAFETY INSTRUCTIONS**

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifier's) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13) Unplug this apparatus during lightning storms or when unused for long periods of time.

- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, dose not operate normally, or has been dropped.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- The apparatus shall not be exposed to dripping or splashing.
- No objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the
  product and cart to overturn, damaging equipment or causing possible injury to the operator.
- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or other similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

For proper ventilation, separate the product from other equipment, which may prevent ventilation, and keep distance more than 10 cm.

- This product should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply of your home, consult your product dealer or local power company.
- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug
  into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
- For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel if the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the
  product is in proper operating condition.
- The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.
- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when overheated.
- Use only the accessory cord designed for this product to prevent shock.

The power supply voltage rating of this product is AC110–240 V (42"10/11/12 W/E/A) and AC220–240 V (42"20/21/22 W/E/A, 50"W/ E/A type) and AC 120 V (U type), and the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC.

When it is used with other power supply voltage, the power cable must be changed.

Use the standard power plug and cord set of the specified country.

Consult your product dealer.

Power supply voltage:

AC 100–125 V (42″10/11/12W, 42″U, 50″U Type: Included)

Power cord

AC 200–240 V (42"20/21/22W, 42"E, 50"W, 50"E Type: Included)



AC 240 V (SAA TYPE) (42"A, 50"A Type: Included) This display uses a plasma display panel and is only  $8.5 \text{ cm} (42^{\circ}) / 9.8 \text{ cm} (50^{\circ})$  deep. With its high picture quality and performance, it is perfectly suited for multimedia applications.

#### Variety of input signals

- RGB input is compatible with mD-sub terminals and BNC terminals.
- The display has an RGB input terminal to receive signals, including VGA, SVGA, XGA, SXGA and UXGA.

#### 5 screen sizes (Video input mode) and 3 screen sizes (RGB input mode)

- This display offers a total of five different screen sizes in video input mode: Wide1, Wide2, Zoom1, and Zoom2. A Normal mode is also available for displaying of normal-size (4:3 aspect ratio) pictures.
- Three different screen sizes in RGB input mode (Normal, Wide, and Zoom) are also available.

#### Vertical installation

• The display can be installed vertically, enabling advertisement to be displayed. In this case, you can set up the display so that on-screen information, such as input modes and menus, is displayed properly.

#### **Power management function**

• The display features a DPMS (Display Power Management Signaling) function that ensures automatic power saving capability.

#### Flexible as part of a system

- You can operate the display by remote control using the RS-232C interface.
- If you have two or more displays, you can assign a unique number to each of them so that you can select which one you want to use.
- Input Priority function for selecting automatic switching to desired mode is provided to avoid troublesome operation.

#### Others

• The white screen and screen orbiter functions are available to minimize phosphor burn-in.

# ACCESSORIES

# **CHECKING ACCESSORIES**

0.0



One remote control Two AA batteries One user's manual One power cable



Two big ferrite

cores

Two small ferrite

cores

(P42VCA11/ P42HCA11/ P50XCA11/

P42VCA21 only)



(42"20/21/22W, 42"E, 50"W, 50"E Type)



(42"A, 50"A Type)

# HANDY TIPS

- Viewing the screen constantly for extended periods can strain your eyes. Be sure to stay at a proper distance (at least 1.5 m or 5 feet (42")/ 1.9 m or 6.3 feet (50")) from the screen and to look occasionally away while working.
- Have the display inspected and cleaned by your dealer at regular intervals.
- Pictures may become "burnt" into the screen phosphors if the screen is left on for extended periods. To ensure that the display has a prolonged service life, be sure to use a screen orbiter, white screen. This will ensure the same picture or pattern is not constantly displayed for long periods. (See P. E-31–E-32.)
- The plasma display panel, which is built for maximum precision, provides more than 99.99% effective pixels. You may find, however, that some pixels constantly remain lit or dimmed.
- The display has a fan to prevent its internal temperature from rising.
- Be careful with the air delivered by the fan. It may be very hot.
- Contact your dealer if you find that the display does not seem to function properly when used with other audio-visual equipment.
  - You may need to move your display if it produces degraded pictures or noise due to electromagnetic radiation, or if the infrared remote control does not function properly.
- Pictures may not be displayed properly if you connect a non-standard PC to the RGB input terminal. In this case, contact your dealer for more information.
- The protective circuit, built into the display, automatically turns off the power if the display has a problem. In this case, you will see that the power indicator lamp flashes red.

#### Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle to prevent fire or electric shock. Then, check the display in accordance with the instructions given on P. E-42, or contact your dealer.

#### Information

Cables for connecting the display to external equipment are not supplied. Contact your dealer for more information on these products.

# INSTALLATION

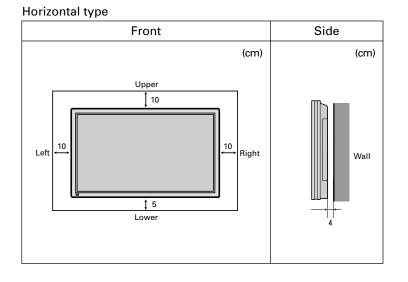
To prevent the display's internal components from overheating, make sure that the display is installed in a well-ventilated location.

Be sure to use the optional desktop stand, ceiling-mounting unit, wall-mounting unit and other unit when installing this display. Also, be sure that your dealer performs the installation.

See the appropriate instruction manual for more information on the installation hardware you select.

To ensure proper heat radiation, provide at least as much space around the display as shown below.

- \* Make sure that the display is installed in a location where the temperature can be maintained between 0°C and 40°C.
- \* Never attempt to tilt the display sideways or backward.
- \* To prevent the power and other cables from being accidentally pulled, be sure to make the wiring work along the wall or through the corners of floor.
- \* To prevent an accident and ensure safety in the event of an earthquake, fix the display securely into position as described below.



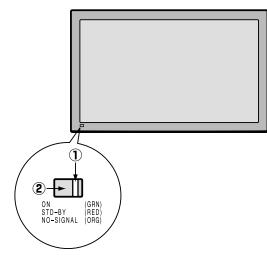
#### Note

The display is a highly precise piece of equipment and therefore must be packed properly before transportation. Be sure to use only those packing materials originally supplied with the display when repacking it.

#### Reference

See P.E-35 for more information on options.

#### Front (both 42" and 50")



#### ① Power indicator lamp

This lamp shows the state of the power supply.

Lit (red):	Power OFF (stand-by)
Lit (green):	Power ON
Lit (orange):	Power saving (DPMS: Power saving function) mode ON
Flashing (red):	Malfunction (Flashes differently depending on the type of malfunction. See P. E-42 for more information.)

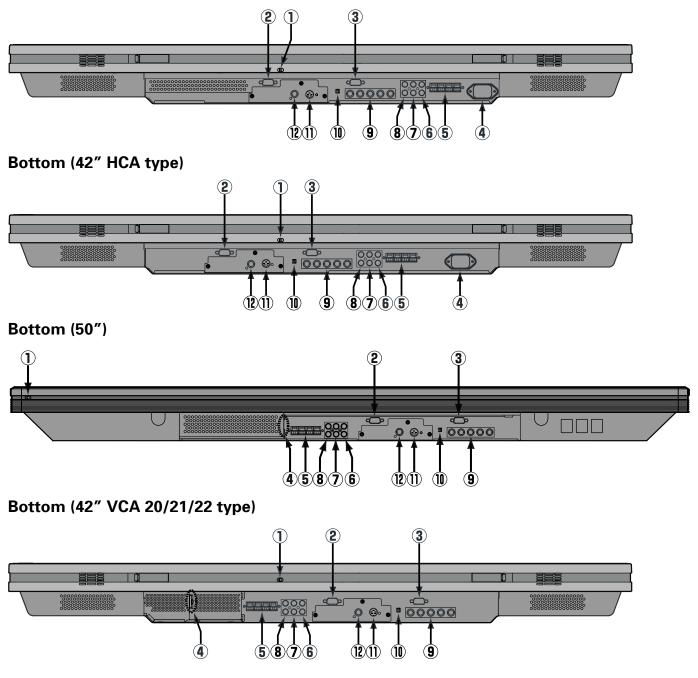
#### ② Remote control signal receiver

Receives signals from the remote control.

#### Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle and contact your dealer. Leaving the display power ON can result in fire or electric shock.

### Bottom (42" VCA 10/11/12 type)



#### ① OFF/STD-BY <sup>(b)</sup> switch

OFF :The power indicator lamp goes off, and the power can't be turned on by the power button. The power is partly supplied.
STD-BY :The power indicator lamp lights red, and the power can be turned on or off by the power button.

#### ② RS-232C terminal (RS-232C)

This terminal is provided for you to control the display from the PC. Connect it to the RS-232C terminal on the PC. When connecting a cable, attach a ferrite core to the cable. (See P. E-13.)

#### ③ RGB1 input terminal (RGB1 INPUT/mD-sub)

Connect this terminal to the PC's display (analog RGB) output terminal or decoder (digital broadcast tuner, etc.) output terminal.

#### ④ Power input terminal

Connect this terminal to the power cable supplied with the display.

When connecting a cable, attach a ferrite core to the cable. (See P. E-13)

#### **⑤** External speaker output terminal (EXT SP)

Connect this terminal to the optionally available speaker.

(When using other speaker than the optional one, use 4–16  $\Omega$  speaker.)

When connecting a cable, attach a ferrite core to the cable. (See P. E-13)

- \* See the speaker instruction manual for more information.
- \* P42VCA11/P42HCA11/P50XCA11/P42VCA21 only.

#### 6 Sound 1 input terminal (AUDIO1 INPUT)

#### ⑦ Sound 2 input terminal (AUDIO2 INPUT)

#### (8) Sound 3 input terminal (AUDIO3 INPUT)

Connect this terminal to the sound output terminal of your VCR, etc. (See P.E-30 for the selection of audio input for video input.) \* This terminal is not available for P42VCA10/P42HCA10/P50XCA10/P42VCA20.

#### ③ RGB2 input terminal (RGB2 INPUT/BNC)

Connect this terminal to the PC's display (analog RGB) output terminal.

#### (1) RGB2 synchronization switch (SYNC SW TTL/ANALOG (75 $\Omega$ ))

This switch is used to terminate horizontal (H) terminal and vertical (V) terminal, out of RGB2 input terminals, with 75  $\Omega$ .

TTL : Does not terminate.

ANALOG (75  $\Omega$ ): Terminates.

#### (1) S-Video input terminal (S-VIDEO INPUT)

Connect this terminal to the S-video output terminal of your VCR.

#### 12 Video input terminal (VIDEO INPUT)

Connect this terminal to the video output terminal of your VCR.

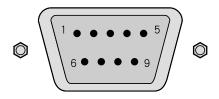
### **Description of Input Terminals**

RGB1 terminal (RGB1 INPUT/mD-sub)

	54321	
0	09876	0

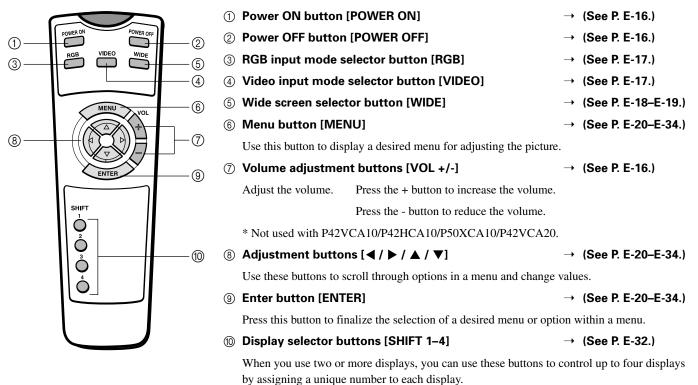
Pin No.	Input signal	Pin No.	Input signal
1	Red	9	—
2	Green	10	Ground
3	Blue	11	—
4	_	12	—
5	Ground	13	Horizontal synchronization
6	Ground	14	Vertical synchronization
7	Ground	15	—
8	Ground	Frame	Ground

RS-232C terminal (RS-232C)



Pin No.	Signal
1	DCD (Data Carrier Detect)
2	RD (Received Data)
3	TD (Transmit Data)
4	DTR (Data Terminal ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

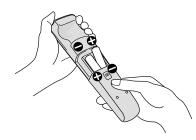
#### **Remote Control**



# PUTTING BATTERIES IN THE REMOTE CONTROL



 To remove the cover, slide it outwards while pressing it down.



② Place two AA batteries in the remote control. Make sure that the batteries are properly oriented.



③ Close the cover until it snaps into place.

**CAUTION:** Be sure to use replacement batteries of the same type as the original ones. When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

#### Note

The remote control will not function properly if the batteries are dead. Be sure to replace them as needed. Do not use rechargeable batteries (Ni-Cd).

# PRECAUTIONS

To prevent malfunction, be sure not to apply any form of severe shock to the remote control.

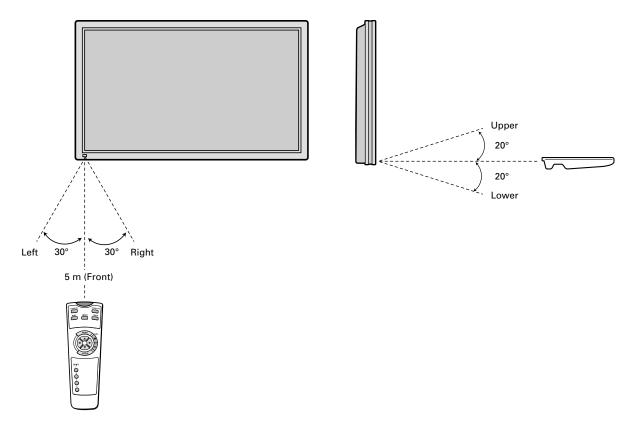
To prevent malfunction or deformation, be sure not to allow the remote control to become wet; also, keep it away from hot locations or heating equipment.

Be sure not to clean the remote control using a cloth dampened in any volatile solvent, such as benzene or thinner.

### **EFFECTIVE RANGE FOR THE REMOTE CONTROL**

Point the remote control at the display's signal receiver when using it.

Make sure that there are no obstacles between the remote control and the display's signal receiver.



#### Information

The remote control may not function properly if you use a high-frequency fluorescent lamp. If you experience problems, move the lamp or use the remote control from a different position.

# CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Be sure to turn OFF the power to the display and external equipment before making any connections.

No cables are supplied with the display for connection to external equipment. The type of cable to be used varies depending on the PC model. Contact your dealer for more information.

# RECEPTACLE

Make sure that the power cable's grounding wire is grounded.

The display comes with a 3-prong power plug; one prong is connected to the grounding wire. If you have only a 2-hole receptacle, you will need to have it replaced. Contact your dealer for more information.

# CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Carefully check the terminals for position and type before making any connections.

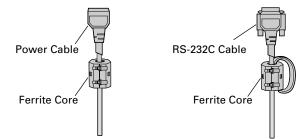
Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

#### **Ferrite cores**

These ferrite cores are used to attenuate undesired signals.

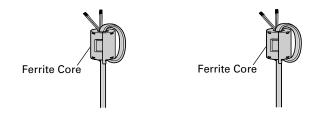
#### Two big ferrite cores

When connecting a cable to the power input terminal, RS-232C terminal, attach one of these ferrite cores to the cable near the terminal.

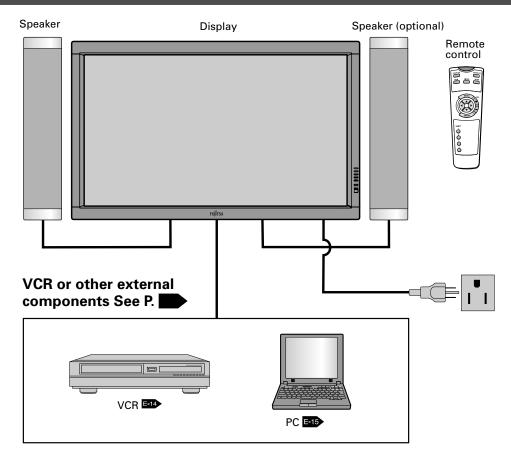


#### Two small ferrite cores

When connecting a cable to the external speaker output terminal attach one of these ferrite cores to the cable near the terminal. (P42VCA11/P42HCA11/P50XCA11/P42VCA21 only.)

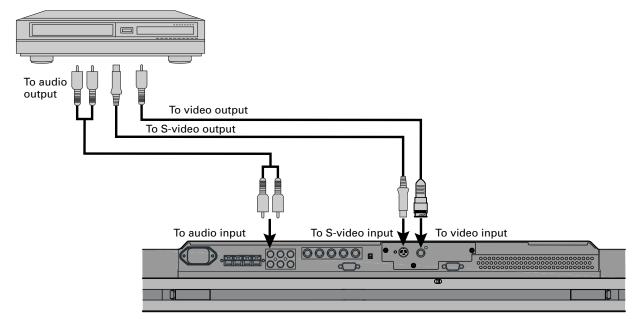


# **EXAMPLE OF CONNECTION TO EXTERNAL COMPONENTS**



# VCR

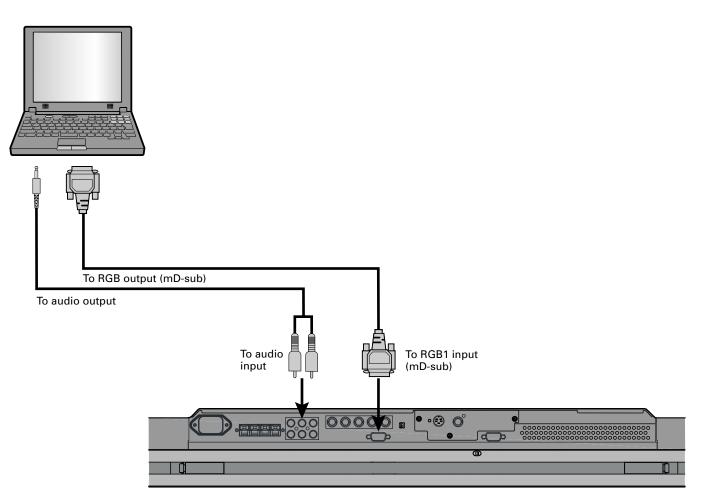
• Connect the video signal cable to either the S-video input terminal or the video input terminal.



Bottom of Display (Ex.: P42VCA11 series)

### PC

• As the cable for connecting a PC differs with the PC model, please consult your dealer for information on the right cable to purchase.

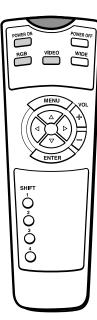


Bottom of Display (Ex.: P42VCA11 series)

#### Note

- Unplug the power cord from the AC outlet before you connect external components.
- Also refer to the instructions for the component to be connected.
- \* When inputting voice see "Selecting input terminals (page E-30)"
- \* The sound terminal is not available for P42VCA10/P42HCA10/P50XCA10/P42VCA20.

# **TURNING ON THE POWER**





The power indicator lamp turns on.



Press <sup>POWER ON</sup> on the remote control.

When you do so, the power indicator lamp turns green.



Press <sup>RGB</sup> or <sup>VIDEO</sup> to select a desired input mode.

# **TURNING OFF THE POWER**



The power indicator lamp turns red.

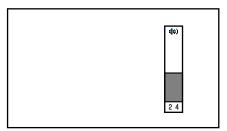
### **ADJUSTING THE VOLUME**

Press  $\left\{ \# \right\}$  to increase the volume.

Press /-/ to reduce the volume.

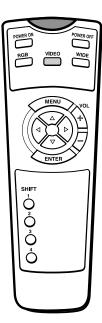
Any value between 0 and 40 can be selected.

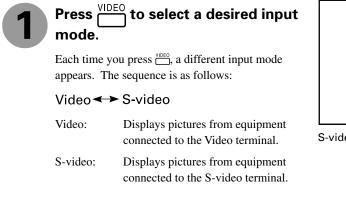
- \* "No Audio" appears if you press 分 or 夕 after you have selected "No Audio" for "Audio Input". (See P. E-30.)
- \* Note that the volume level remains stored even when you turn OFF the power.
- \* Not used with P42VCA10/P42HCA10/P50XCA10/ P42VCA20.



When the volume adjustment button is pressed

# **VIDEO INPUT MODE**





S-video

S-video mode

# **RGB INPUT MODE**

	POWER OFF
	VOL (†
	J

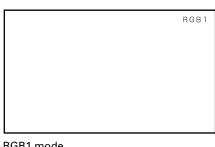


### Press desired input mode.

Each time you press 📛, a different input mode appears. The sequence is as follows:

#### RGB1**∢ →**RGB2

- RGB1:Displays pictures from equipment connected to the RGB1 (mD-sub) terminal.
- RGB2:Displays pictures from equipment connected to the RGB2 (BNC x 5) terminal.

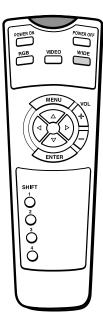


RGB1 mode



RGB2 mode

# SWITCHING BETWEEN SCREEN SIZES





# Press WIDE

The currently selected mode will appear.

	Press
•	pictur

to select a desired e mode.

Each time you press *methode*, a different picture mode appears. The sequences used are as follows:

When you are in a Video or S-video input mode

→Normal→ Wide1→ Wide2¬ – Zoom2 🝝 Zoom1 🗲 When you are in an RGB input mode ►Normal → Wide → Zoom -

\* Depending on the type of signal, some aspects may not be selected.

Normal

Normal mode

Widel

Wide1 mode

#### Note

- Displaying a picture in a Normal mode for extended periods of time may cause phosphor burn-in.
- A variety of picture modes are available with this display. Remember that if you select a mode with an aspect ratio (ratio of frame width to frame height) different from that of the TV program or video media, the pictures will appear differently than if you had selected a mode having the same aspect ratio.
- Showing a movie or similar premium event at a different aspect ratio from its original one at any event site, restaurant, or bar for profit-making purposes or for a public audience may constitute a copyright infringement.

For films, try to select a mode having the same aspect ratio as the original picture; this enables the director's original intentions to be preserved.

#### Reference

See P. E-22–E-23 for how to adjust the picture size and position.

# **SCREEN SIZE**

#### Normal

Displays pictures of normal size (i.e., a 4:3 aspect ratio).

#### Wide1

Displays natural-looking pictures of standard size on the wide screen.

#### Wide2/Wide

Ideal for displaying vertically extended pictures such as squeezed pictures and recorded HDTV programs.

#### Zoom1/Zoom

Enlarges horizontally extended pictures equally in all directions to maintain the aspect ratio constant.

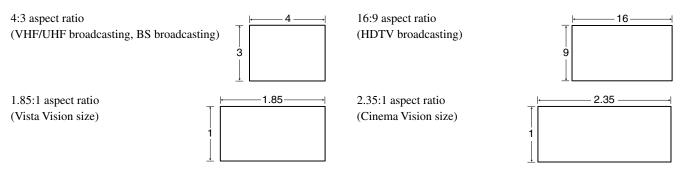
#### Zoom2

Reduces the height of horizontally extended pictures with captions, without eliminating the caption. Only the height of pictures is reduced, not the height of the caption.

(Captions may not be easy to read, however, depending on the picture.)

# **ASPECT RATIO**

The following aspect ratios are available.



#### Information

You may find dark areas on top and at the bottom of the screen if you select one of the Zoom modes for media while using the Vista Vision or Cinema Vision size i.e., the sizes used frequently for picture software.

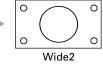






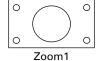
С

 $\circ$ 



extended picture







Horizontally extended

picture with caption

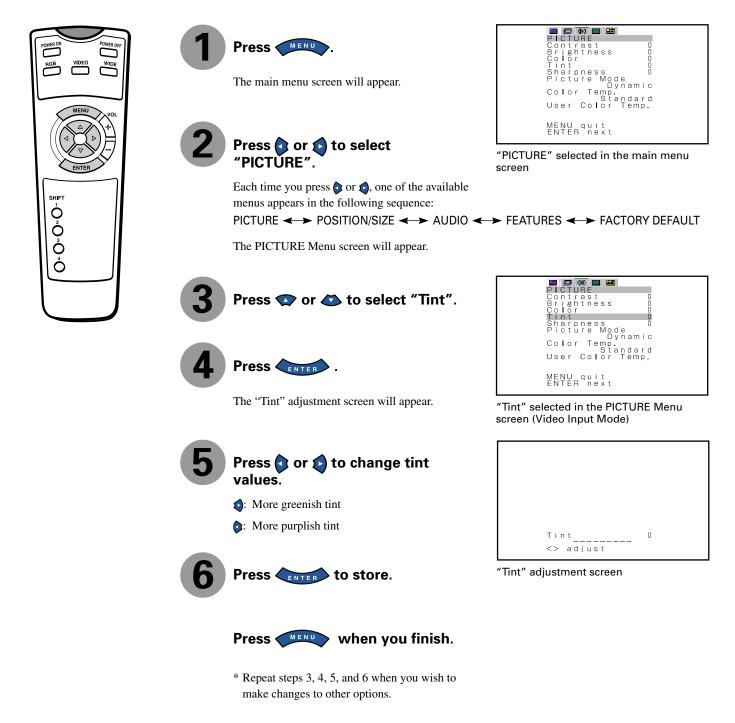
picture

Zoom2

# BASIC OPERATIONS [EX.: ADJUSTING TINT (Tint)]

You can make changes to all picture adjustment options in the PICTURE Menu.

The changes you make will be stored for a selected input mode. Therefore, you need to select a desired input mode before making any changes.



#### Contrast, brightness, color darkness, tint, and picture sharpness are adjusted as shown in the following chart.

Select the item with 👁 📣, and then adjust with 🖗 🖗. Finally, press 👐 to implement the adjustments.

Adjustment Item	•	٤	Adjustment Range/Remarks
Contrast	Lower contrast	Higher contrast	-30 to +30
Brightness	Darker screen	Brighter screen	-60 to +60
Color	Lighter colors	Darker colors	-60 to +60
Tint	More purplish colors	More greenish colors	-60 to +60 (RGB) -30 to +30 (Video, S-video)
Sharpness	Softer pictures	Sharper pictures	-4 to +4 (RGB) -16 to +16 (other than RGB)

#### Setting Picture Mode (Picture Mode)

Can set up the picture mode.

Each time you press  $\bigcirc$  or  $\bigcirc$ , one of the available choices appears in the following sequence:

🗕 Dynamic 🛶 Real 🛶 Static 🛶

Dynamic: Suitable for watching a normal motion picture.(Standard)

- Real:Makes a strong contrast picture.Static:Suitable for watching a still picture.
- Press ENTER to store.

\* Select Dynamic, Real or Static to suit your taste.

#### Setting Luminance (Luminance)

#### Luminance can be set.

Use  $\bigcirc$  or  $\bigcirc$  to select a value between 40 and 100.

Press **ENTER** to store.

\* Settings can only be done when the Picture Mode is Static.

#### Adjusting Color Temperature (Color Temp.)

Use  $\bigcirc$  or  $\bigcirc$  to specify a desired color temperature. Each time you press  $\bigcirc$  or  $\bigcirc$ , one of the available choices appears in the following sequence:

┌➤ — 3500 < ➤ ... < ➤ Standard < ➤ ... < ➤ + 3500 < ➤ User <

-3500:More reddish colorsStandard:Standard color temperature+3500:More bluish colorsUser:User Color Temp. setup

Press to store.

#### Setting User Color Temp. (User Color Temp.)

Can set up when User is selected in Color Temp.

Press  $\bigcirc$  or  $\bigcirc$  to select Red, Green or Blue and press  $\bigcirc$  or  $\bigcirc$  to make adjustment in the range of 0 to 255.

Press to store.

\* Color Temp. setup is switched to User. The initial value of User Color Temp. is adjusted individually at the factory.



User Color Temp.adjustment screen

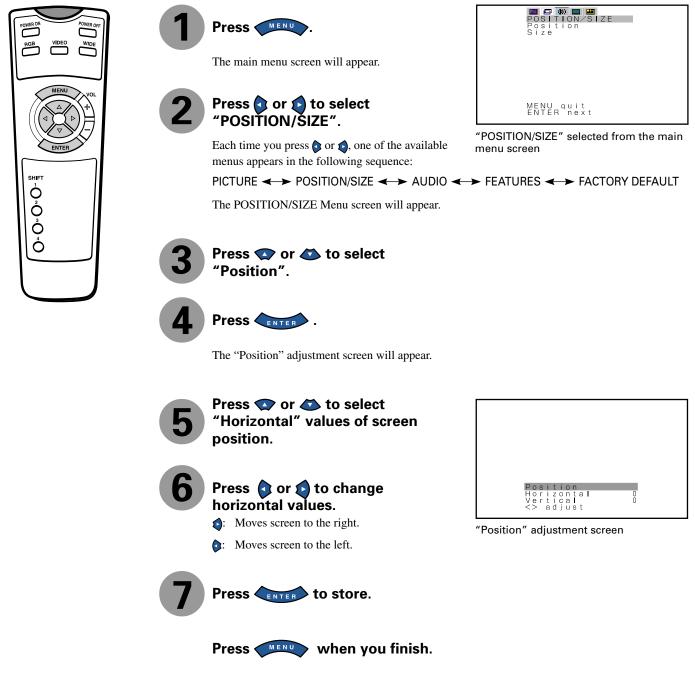
\* On-screen information disappears if you do not take any action for about 60 seconds.



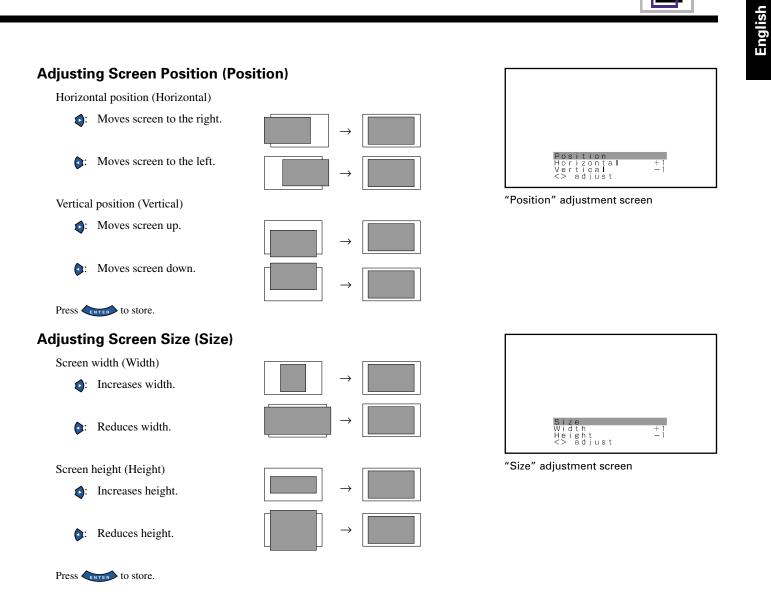
### **BASIC OPERATION [EX.: ADJUSTING HORIZONTAL DIRECTION OF SCREEN**

You can make changes to all screen adjustment options in the POSITION/SIZE Menu.

The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.



\* Repeat steps 3 to 7 when you wish to make changes to other options.



#### **Setting Range**

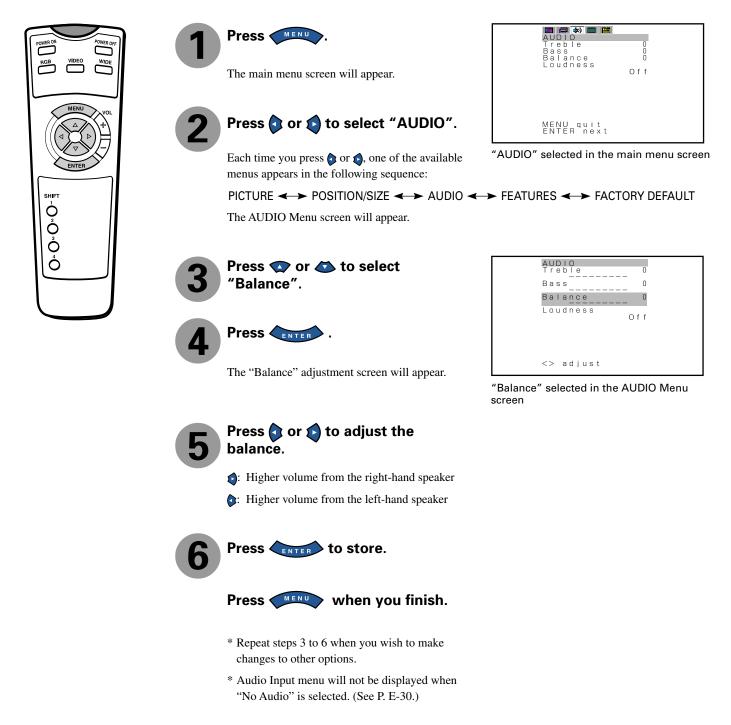
	Video, S-video mode	RGB mode
Position	Horizontal: -30 to +30 Vertical Zoom: -15 to +15 Others: -7 to +7	-150 to +150
Size	-3 to +12 (P42HCA10/11/12) -7 to +16 (P42VCA10/11/12/20/21/22) -7 to +12 (P50XCA10/11/12)	-12 to +25 (P42HCA10/11/12) -25 to +50 (P42VCA10/11/12/20/21/22, P50XCA10/11/12)

\* Depending on the input signal, the adjustment range may differ.

# **BASIC OPERATION [EX.: ADJUSTING VOLUME BALANCE (Balance)]**

You can make changes to all sound adjustment options in the AUDIO Menu.

The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.



**(**)))

0

0 f f

#### Adjusting Treble (Treble)

Any value between -6 and +6 can be selected.

- Stronger treble
- : Weaker treble

#### **Adjusting Bass (Bass)**

Any value between -6 and +6 can be selected.

- Stronger bass
- •: Weaker bass

#### Adjusting Volume Balance (Balance)

Any value between -10 and +10 can be selected.

- S: Higher volume from the right-hand speaker
- S: Higher volume from the left-hand speaker

#### **Setting Loudness (Loudness)**

Corrects the balance between bass and treble for easy listening even with weak volume.

Each time you press () or (), one of the available choices appears in the following sequence:

On ← > Off

On : Corrects bass and treble.

Off: Loudness dose not function.

Loudness

<> adjust

AUDIO Treble Bass

Balance

"Treble" selected in the AUDIO Menu screen

Each audio input

Each audio input

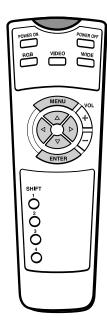
Each audio input

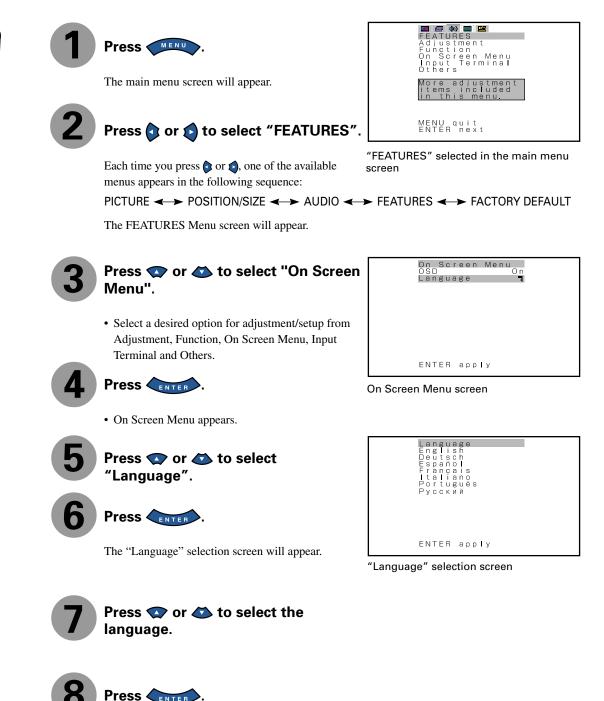
Each audio input

\* On-screen information disappears if you do not take any action for about 60 seconds. \* Cannot be set with P42VCA10/P42HCA10/P50XCA10/P42VCA20.

# BASIC OPERATION [EX.: SELECTING LANGUAGE (Language)]

You can make the following changes in the FEATURES Menu.





The menu is displayed in the selected language.



\* Repeat steps 3 to 8 when you wish to make changes to other options.

#### • FEATURES setup screen has the following 4 options.

Adjustment	: Can make a fine adjustment of pictures such as Dot Clock, Clamp Position.
On Screen Menu	a : Can make a display setting such as OSD, Language. (See P. E-28.)
Input Terminal	: Can make an input terminal setting such as Video Input. (See P. E-28-E-29.)
Others	: Can make other settings. (See P. E-30–E-33.)

### **ADJUSTMENT**

#### Adjusting Dot Clock (Dot Clock)

You may find that pictures blur, depending on the clock frequency of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Dot Clock".

Use  $\bigcirc$  or  $\bigcirc$  to select a value between -60 and +60.

Press **ENTER** to store.

#### Adjusting Clock Phase (Clock Phase)

You may find that pictures blur, depending on the clock phase of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Clock Phase".

Use 💎 or 🍊 to select "Auto" or "Manual".

Makes automatic adjustment. Auto:

Manual: Makes manual adjustment.

Use  $\bigcirc$  or  $\bigcirc$  to specify a value between 1 and 32.

Press **ENTER** to store.

#### Adjusting Clamp Position (Clamp Position)

Adjusts clamp pulse in accordance with the input signal received from connected equipment.

Use  $\bigcirc$  or  $\bigcirc$  to specify a value between -8 and 8.

Press **ENTER** to store.

#### Selecting the Optimum Dynamic Range of Images (Auto Calibration)

for RGB

for RGB

Receives a white screen signal and adjusts the dynamic range of images to the optimum.

\* On-screen information disappears if you do not take any action for about 60 seconds.

(1) Select Auto Calibration and press

Auto Calibration screen appears.

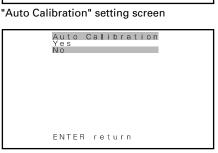
#### (2) Select Execute and press **ENTER**.

Press 💎 or 🍊 to select Yes or No.

Yes: Stores the data of Auto Calibration.

No: Disables the execution result of Auto Calibration.

(3) Press **ENTER** to execute.



"Yes/No" screen to select





for RGB

Clock Phase Auto Manual

When selecting Manual by Clock Phase

Auto Calibration Execute

ENTER next

ENTER apply

### **ON SCREEN MENU**

#### • Setting Display Information (OSD)

You can use this option to select whether to display information other than menus. (Error messages are displayed regardless of what choice you make for this option.)

Each time you press, one of the available choices appears in the following sequence:

On ←→ Off On : Displays all information. Off : Displays only menus and error messages.

Press **ENTER** to store.

#### Selecting Language (Language)

You can use this option to select the language displayed on the screen.

(1) Select "Language" and press (I) .

The "Language" selection screen will appear.

(2) Press 😨 or 🆚 to select your desired language.

English Deutsch (German) Español (Spanish) Français (French) Italiano (Italian) Português (Portuguese) Русский (Russian)

(3) Press

The menu is displayed in the selected language.

\* Russian can only be set with the E-model.

### INPUT TERMINAL

#### Selecting Video Mode (Video Input)

You can use this option to select the desired video mode of pictures it will receive to the Video Input terminal.

Each time you press (a) or (a), one of the available modes appears in the following sequence: Auto ANTSC APAL ASECAM APAL60 A 4.43NTSC A

Auto: Automatically selects NTSC, PAL and SECAM.

Other than Auto: You need to select a system appropriate to the input signal.

Press **ENTER** to store.

#### Selecting Video Mode (S-video Input)

You can use this option to select the desired video mode of pictures it will receive to S-video Input terminal.

Each time you press () or (), one of the available modes appears in the following sequence:

→Auto **→**NTSC**→**PAL **→**SECAM **→**PAL60 **→** 4.43NTSC **→** 

Auto: Automatically selects NTSC, PAL and SECAM.

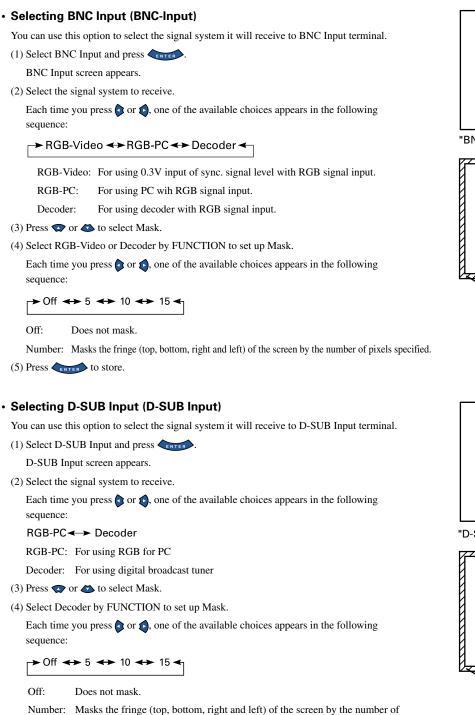
Other than Auto: You need to select a system appropriate to the input signal.

Press **ENTER** to store.



"Language" selection screen

English



BNC Input Function RGB-PC <> select "BNC-Input" selection screen



This fringe part is masked.



This fringe part is masked.

(5) Press **ENTER** to store.

pixels specified.

\* On-screen information disappears if you do not take any action for about 60 seconds.

### **OTHERS MENU**

#### · Selecting time before DPMS starts (DPMS)

You can use this option to select the amount of time before the DPMS function starts.

DPMS (which stands for "display power management signaling") allows the display to maintain an automatic power saving function.

This function causes on-screen information to disappear until the next input operation, if the power is ON and the display has not received any signals for the predetermined period of time. When DPMS is active, the power indicator lamp turns orange.

(1) Select DPMS and press

DPMS screen appears.

(2) Press 😨 or 🏠 to select Time.

(3) Each time you press (3) one of the available choices appears in the following sequence:

└ > Off ← > 1min. ← > 15min. ← > 45min. ← > 60min. ←

Off: Disables DPMS

Number: Approximate time before DPMS starts. (Unit: minutes)

- \* The power indicator lamp turns orange while the DPMS is ON.
- \* The power turns ON automatically when the display receives a signal.
- (4) Can specify background color.

Press  $\bigcirc$  or  $\bigcirc$  to select background color.

Each time you press () or (), one of the available choices appears in the following sequence:

Black ← ► White

Black: Mutes images in Black background.

White: Mutes images in White background.

\* Switches approx. 20 seconds after the display stops receiving signals.

(5) Press to store.

#### Selecting input terminals (Audio Input)

You can use this option to select one of the three available terminals to receive sound from input equipment.

(1) Select "Audio Input" and press (ENTER).

The "Audio Input" selection screen will appear.

(2) Press  $\bigcirc$  or  $\bigotimes$  to select input equipment.

(3) Select a desired input terminal.

Each time you press ♥ or ♥, one of the available choices appears in the following sequence: →No Audio → Audio 1→ Audio 2 → Audio 3 →

No audio: No sound in the corresponding mode.

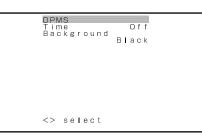
Audio 1-3: Selects Audio 1 through 3 for receiving sound in the corresponding mode.

\* Repeat steps (2) and (3) for each piece of input equipment.

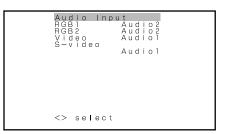
(4) Press to store.

\* Audio Input menu will not be displayed when "No Audio"is selected.

\* Cannot be set with P42VCA10/P42HCA10/P50XCA10/P42VCA20.



DPMS selection screen



"Audio Input" selection screen

You can use this option to move the screen position to minimize phosphor-induced "burn-in". Follow the steps below.

(1) Select "Screen Orbiter" and press (1). The "Screen Orbiter" setting screen will appear.

Minimizing phosphor burn-in (Screen Orbiter)

(2) Press 👁 or 👁 to select "Mode/Time".

(3) Select a desired pattern.

Each time you press () or (), one of the available choices appears in the following sequence:

┌➤ Off ←➤ Time ←➤ Mode ←

Off: Disables Screen Orbiter.

Time: Moves the pattern approximately every one hour.

Mode: Moves the pattern when the power is turned ON or when you switch between modes.

(4) Press 👁 or 👁 to select "Moving Area".

(5) Press  $\bigcirc$  or  $\bigcirc$  to select the range for moving the pattern.

Each time you press or of the available choices appears in the following sequence:

► Min. ← Std. ← Max.←

Min.: Pattern moves in small range. (About 5 pixels)

Std.: Pattern moves in moderate range. (About 10 pixels)

Max.: Pattern moves in wide range. (About 15 pixels)

(6) Press **ENTER** to store.

#### Using screen protection functions (examples)

The screen protection functions minimize phosphor burn-in but cannot completely eliminate it.

When using the display occasionally	When using the display continuously
• Select a desired amount of time for "DPMS". Thus, when the display does not receive a signal, it will automatically display white or black over the entire screen. When the predetermined time elapses, the power will turn OFF.	<ul> <li>When switching between RGB and video input modes only occasionally</li> <li>(1) Select "Time" for "Mode/Time" with "Screen Orbiter".</li> <li>(2) Select a desired range for "Moving Area" with "Screen Orbiter". This causes the screen saver pattern to move in the same range at regular intervals.</li> <li>When switching between RGB and video input modes frequently</li> <li>(1) Select "Mode" for "Mode/Time" with "Screen Orbiter".</li> <li>(2) Select a desired range for "Moving Area" with "Screen Orbiter". This causes the screen saver pattern to move in the same range at regular intervals.</li> </ul>

#### Input mode of priority (Input Priority)

You can use this option to switch between modes only when a signal is received through the selected input mode terminal. You cannot switch the input mode.

Each time you press or of the available choices appears in the following sequence:

┌→Off ←→ RGB1 ←→ RGB2 ←→ Video ←→ S-video ←┐

Off: Switches between modes normally.

Other modes: Displays pictures when a signal is received through the selected input mode terminal.

Press **ENTER** to store.

\* On-screen information disappears if you do not take any action for about 60 seconds.

#### for RGB

Sc Mo	reen de∕Ti	Orbi me	ter Off	
Мo	ving	Area	Std.	

select "Screen Orbiter" setting screen

<>

#### · Assigning Numbers to Displays (Monitor No.)

When you use two or more displays, you can use a single remote control to control individual displays by assigning a unique number to each of the displays.

Each time you press **(a)** or **(d)**, one of the available numbers appears in the following sequence:

0: You can normally control displays.

You cannot control displays if you press any of [SHIFT 1] through [SHIFT 4].

1–4: Allows you to control a desired display by pressing the corresponding button (one of [SHIFT 1] through [SHIFT 4]).

When you do not press any of the SHIFT buttons, you can control all displays.

Press **ENTER** to store.

\* You can check the "Monitor No." on the Information screen. (See P. E-33.)

#### • Setting RGB Input Signal Compulsorily (Direct Setting)

You can use this option to switch the setting for RGB input signal.

Each time you press 👌 or 🔊, one of the available choices appears in the

following sequence:

#### 

Auto: The optimum display is obtained automatically for input signals. Others: The optimum resolution setting is fixed for each signal.

#### Press **ENTER** to store.

\* In Auto mode, the resolution of VGA, WVGA, 480P, XGA, WXGA, SXGA and SXGA<sup>+</sup> may not be automatically distinguished. Switch to the fixed display when the image is not displayed properly.

#### Specifying RGB Input Signal (Code Setting)

You can use this option to specify and display the type of RGB input signal by code number.

Each time you press  $\bigcirc$  or  $\bigotimes$ , one of the available choices appears in the following

sequence:

#### Auto 🔶 Manual

Auto: Automatically displays the input signal to the optimum. Manual: Selects RGB code number.

#### Press **ENTER** to store.

\* In Auto mode, the optimum resolution may not be set up automatically depending on the type of signal.

Select the type of signal when the image is not displayed properly.

However, note that when the type of signal is selected directly, the signal of other resolution may not be displayed properly.

#### · Displaying white over entire screen (White Screen)

You can use this option to display white over the entire screen to minimize phosphor burn-in.

Each time you press () or (), one of the available choices appears in the following sequence:

On ← > Off

Off: Does not display white.

On: Displays a white screen immediately.

Press **ENTER** to store.



"Code Setting" setting screen

#### · Setting Exhibition Mode (Exhibition Mode)

You can use this option to display the enhanced contrast, which is most suitable for the use by unspecified persons.

Each time you press or of the available choices appears in the following sequence:

On ← → Off

On: Sets up Exhibition mode.

Off: Sets up normal mode.

Press **ENTER** to store.

\* In Exhibition mode, the display returns to the original setting in about 5 minutes even if the adjustment is changed.

\* The setup will be cancelled when removing the power plug from the receptacle.

#### Horizontal/Vertical installation (Installation)

You can use this option to setup the number of fan rotation and the direction of display text of menu or other screen for horizontal and vertical installation.

Each time you press () or (), one of the available choices appears in the following sequence:

-90 Deg. ← Normal ← +90 Deg. ←

-90 Deg. : Displays text from left to right when the display is installed with the power indicator lamp at the top.

Normal : Displays text normally.

+90 Deg. : Displays text from left to right when the display is installed with the power indicator lamp at the bottom.

Press **ENTER** to store.

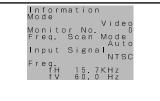
\* Be sure to make this setup when changing the direction of installation.

#### Displaying System Status (Information)

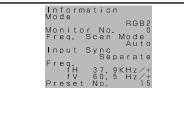
Displays system operation status.

Select "Information" and press

The "Information" screen will appear.			
Mode:	Input mode		
Monitor No .:	Monitor number		
Freq. Scan Mode:	Frequency scanning		
Input Signal:	Video mode		
Input Sync.:	Signal type		
Freq.:	Frequency and polarity (fH, fV)		
Preset No.:	RGB code number		

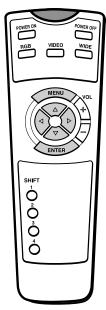


Information screen (Video Input Mode)



Information screen (RGB2 Input Mode)

You can restore the values of the adjustment/setting made in the MENU to factory settings.



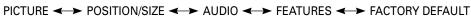
\* You can also use the switches on the display's control panel to accomplish these steps.



The main menu screen will appear.



Each time you press (a) or (a), one of the available menus appears in the following sequence:



The FACTORY DEFAULT Menu screen will appear.



• Displays the message of whether to proceed with the initialization.



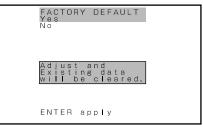


• The message of having completed the initialization will be displayed after initializing.





"FACTORY DEFAULT" selected in the main menu screen



Displays the message of whether to proceed the initialization



Displays the message of having completed the initialization

# **OPTIONS**

Wall-mounting unit	0° to 15° mounting angle	P-WB4200
Hanging unit	0° to 15° mounting angle	P-CT4200
Stand		P-TT4200
Speaker		P-42SP11 (for 42") P-50SP01 (for 50") (1 set of 2 speakers)
Speaker Stand		P-42ST11 (for 42") P-50ST01 (for 50") (1 set of 2 speakers stands)
Videoboard		P-TE1020E

\* When installing an option, make sure that all installation requirements for that option (as given in the relevant instruction manual) are met.

\* The colors of options do not match the display colors perfectly.

#### Warning

To prevent injury, fire, and electric shock, arrange for options to be initially installed (or installed at a different location) by your dealer.

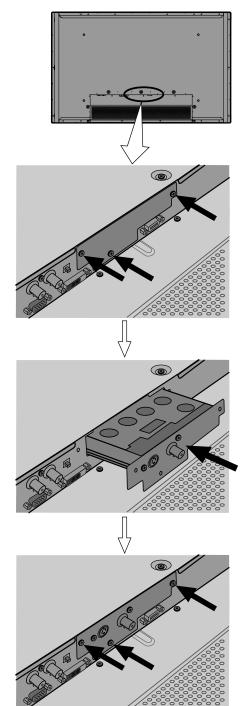
**CAUTION:** This display (P42VCA10/P42VCA11/P42VCA12/P42HCA10/P42HCA11/P42HCA12/ P50XCA10/P50XCA11/P50XCA12/P42VCA20/P42VCA21/P42VCA22) is for use only with Fujitsu General Limited's option (P-WB4200, P-CT4200, P-TT4200). Using this display with other option can cause instability resulting in possible injury.

### INSTALLATION

- 1. Turn the power supply switch to OFF.
- 2. Remove the power plug from outlet.
- 3. Remove the plate attached to the bottom rear of the main unit from the Video board unit mounting bracket (3 mm screw w/spring X 3).
- 4. Insert the Video board unit into the main unit slot using the guides on the sides.
- 5. Completely insert the Video board until the plate touches the main unit box.
- 6. Mount the plate using the 3 screws with spring removed earlier.
- 7. Affix the enclosed connector label to the marking position on the rear cover.

#### Connecting the signal input cable

For details, see "Connecting to External Equipment" in the main unit instructions manual.



#### **CAUTION:** Follow the items given below, to prevent accidental injuries and possible electrical shock.

Turn off the power supply and disconnect the power plug from outlet before installing the Video board unit. Do not remove the cabinet when installing the Video board unit.

Do not remove screws expect for the specified user service screw marked "<sup>+</sup>".

Do not use screws other than that specified in this manual for the installation of this Video board unit.

This display can store the latest four types of signals for RGB adjustment value. The fifth input signal will replace the adjustment value of the first input signal.

To do this, select a desired signal and follow the instructions in "Adjusting Screen Position and Size" on P. E-22–E-23 to adjust the parameters. When you finish, the settings will be automatically stored. Thus, when the display receives that signal, pictures will be displayed in accordance with the settings you most recently selected.

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
640 x 480	31.47	59.94	VGA
640 x 480	37.50	75.00	VGA 75 Hz
640 x 480	43.27	85.01	VGA 85 Hz
720 x 400	31.47	70.09	400 lines
800 x 600	37.88	60.32	SVGA 60 Hz
800 x 600	46.88	75.00	SVGA 75 Hz
800 x 600	53.67	85.06	SVGA 85 Hz
1024 x 768	48.36	60.00	XGA 60 Hz
1024 x 768	60.02	75.03	XGA 75 Hz
1024 x 768	68.68	84.99	XGA 85 Hz
1280 x 1024	63.98	60.02	SXGA 60 Hz
1280 x 1024	79.98	75.03	SXGA 75 Hz
1600 x 1200	75.00	60.00	UXGA 60 Hz
1600 x 1200	106.25	85.00	UXGA 85 Hz
848 x 480	31.02	60.00	
852 x 480	31.72	59.97	
1360 x 768	47.71	60.01	
720 x 485	15.73	59.94	60 fields
720 x 575	15.63	50.00	50 fields

#### Main corresponding signals (RGB mode)

\* With some input signals, "Out of range" may appear even when the horizontal and vertical frequencies are within their permissible ranges. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA/XGA/UXGA, 75 Hz or less for SXGA.

In the Video/S-video modes, the display has been factory-set as follows for different input signals:

#### Main corresponding signals (Video, S-video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	NTSC
15.63	50.00	PAL
15.63	50.00	SECAM
15.63	59.52	PAL60
15.73	59.94	4.43NTSC

• "Out of range" appears if the display receives a signal whose characteristic does not fall within the display's permissible range.

• All terms (i.e., company and product names) used in this document are trademarks or registered trademarks.

<sup>•</sup> Depending on the input signal, the display may show pictures of reduced size due to size reduction and interpolation.

<sup>•</sup> You can check input signals through "Information" on the FEATURES Menu screen. (See P. E-33.)

<sup>•</sup> In order to facilitate the explanations, pictures and diagrams in this manual may differ slightly from the actual items.

# **SPECIFICATION**

Model	P42VCA10W/E/A	P42VCA11W/E/A	P42VCA12W/E/A		
Screen size	42" wide screen: 92.1 cm (W) x 51.8 cm (H) (105.7 cm diagonal) 36.3 inch (W) x 20.4 inch (H) (41.6 inch diagonal)				
Aspect ratio	16:9 (wide)	16:9 (wide)			
Weight	28.5 kg / 62.8 lbs				
Outer dimensions	103.5 (W) x 64.0 (H) x 8.5 (D) cm 40.7 (W) x 25.2 (H) x 3.3 (D) inch				
Power supply	110-240 VAC 50/60 Hz	1	1		
Current rating	3.0–1.3 A	3.1–1.4 A	3.0–1.3 A		
Number of pixels	852 (H) x 480 (V)				
Display modes	Video, S-video input: Norma	l/Wide1/Wide2/Zoom1/Zoom2			
	RGB: Norma	l/Wide/Zoom			
Colors	16.77 million				
Sound output	_	_	2.5 W + 2.5 W (EIAJ), 8 Ω		
Speaker	_	_	2-internal		
External equipment terminals			,		
Video input terminals	VIDEO1 INPUT (Video input)     1 BNC terminal     1 Vp-p/75 Ω				
	VIDEO2 INPUT (S-video input)		1 Vp-p/75 Ω 0.286 Vp-p/75 Ω		
Applicable systems	NTSC/PAL/SECAM/PAL60/4.43	3NTSC			
PC input terminal	RGB1 inputmD-sub, 3 rows, 15-pin Picture signal: $0.7 \text{ Vp-p}/75 \Omega$ Synchronization signal:TTL levelRGB2 inputBNC terminal x 5R: $0.7 \text{ Vp-p}/75 \Omega$ G: $0.7 \text{ Vp-p}/75 \Omega$ B: $0.7 \text{ Vp-p}/75 \Omega$ H: TTL Level or ANALOG (75 $\Omega$ ) V: TTL Level or ANALOG (75 $\Omega$ )				
Sound terminals	$- 2 \text{ sound input pin jacks (L/R) (3 lines)} $ $500 \text{ mVrms/ at least } 22 \text{ k}\Omega$				
Control terminal	1 RS-232C connector (D-sub 9-pin)				
External speaker output terminal	$- \qquad \qquad Effective max. output: \qquad - \\ 10 W + 10 W (EIAJ), 8 \Omega \qquad \qquad - \\ \end{array}$				
Operating conditions	Temperature:         0 to 40 °C / 32 to 104 °F           Humidity:         20 to 80 %				
Accessories	1 remote control, 2AA batteries, 2 small ferrite cores (P42VCA11	1 instruction manual, 1 power cab	le, 2 big ferrite cores,		

#### Regulation --- P42VCA10W/E/A, P42VCA11W/E/A, P42VCA12W/E/A

• UL, CSA Safety: UL6500, C-UL

EMC: FCC Part 15 Class A, ICES-003 Class A CE Safety: EN60065

• CE	Safety:	EN60065	
	EMC:	EN55022	1998, Class A
		EN61000-3-2	1995
		EN61000-3-3	1995
		EN55024	1998
		EN61000-4-2	1995
		EN61000-4-3	1996
		EN61000-4-4	1995
		EN61000-4-5	1995
		EN61000-4-6	1996
		EN61000-4-8	1993
		EN61000-4-11	1994
• AS	Safety:	IEC60065	

EMC: AS/NZS 3548

Model	P42HCA10W/E/A	P42HCA11W/E/A	P42HCA12W/E/A		
Screen size	42" wide screen: 92.2 cm (W) x 52.2 cm (H) (106.0 cm diagonal) 36.3 inch (W) x 20.6 inch (H) (41.7 inch diagonal)				
Aspect ratio	16:9 (wide)	16:9 (wide)			
Weight	28.5 kg / 62.8 lbs				
Outer dimensions		103.5 (W) x 64.0 (H) x 8.5 (D) cm 40.7 (W) x 25.2 (H) x 3.3 (D) inch			
Power supply	110-240 VAC 50/60 Hz				
Current rating	4.3–1.8 A	4.4–1.9 A	4.3–1.8 A		
Number of pixels	1024 (H) x 1024 (V)				
Display modes	Video, S-video input: Norma	l/Wide1/Wide2/Zoom1/Zoom2			
	RGB: Norma	l/Wide/Zoom			
Colors	16.77 million				
Sound output	-	_	2.5 W + 2.5 W (EIAJ), 8 Ω		
Speaker	-	_	2-internal		
External equipment terminals			1		
Video input terminals	VIDEO1 INPUT (Video input)     1 BNC terminal     1 Vp-p/75 Ω				
	VIDEO2 INPUT (S-video input)1 S terminalY: 1 Vp-p/75 $\Omega$ C: 0.286 Vp-p/75 $\Omega$				
Applicable systems	NTSC/PAL/SECAM/PAL60/4.43	3NTSC			
PC input terminal	RGB1 inputmD-sub, 3 rows, 15-pin Picture signal: $0.7 \text{ Vp-p/75 }\Omega$ Synchronization signal:TTL levelRGB2 inputBNC terminal x 5R: $0.7 \text{ Vp-p/75 }\Omega$ G: $0.7 \text{ Vp-p/75 }\Omega$ B: $0.7 \text{ Vp-p/75 }\Omega$ H: TTL Level or ANALOG (75 $\Omega$ ) V: TTL Level or ANALOG (75 $\Omega$ )				
Sound terminals	$\frac{2 \text{ sound input pin jacks (L/R) (3 lines)}}{500 \text{ mVrms/ at least 22 k}\Omega}$				
Control terminal	1 RS-232C connector (D-sub 9-pin)				
External speaker output terminal	_	Effective max. output: 10 W + 10 W (EIAJ), 8 Ω	_		
Operating conditions	Temperature:         0 to 40 °C / 32 to 104 °F           Humidity:         20 to 80 %				
Accessories	1 remote control, 2AA batteries, 2 small ferrite cores (P42HCA11	1 instruction manual, 1 power cab	le, 2 big ferrite cores,		

# Regulation --- P42HCA10W/E/A, P42HCA11W/E/A, P42HCA12W/E/A • UL, CSA Safety: UL6500, C-UL EMC: FCC Part 15 Class A, ICES-003 Class A

• CE	Safety:	EN60065	
	EMC:	EN55022	1998, Class A
		EN61000-3-2	1995
		EN61000-3-3	1995
		EN55024	1998
		EN61000-4-2	1995
		EN61000-4-3	1996
		EN61000-4-4	1995
		EN61000-4-5	1995
		EN61000-4-6	1996
		EN61000-4-8	1993
		EN61000-4-11	1994
• AS	Safety:	IEC60065	
	EMC:	AS/NZS 3548	

# **SPECIFICATION (Continued)**

Model	P50XCA10W/E/A/U	P50XCA11W/E/A/U	P50XCA12W/E/A/U		
Screen size	50" wide screen: 110.6 cm (W) x 62.2 cm (H) (126.9 cm diagonal) 43.5 inch (W) x 24.5 inch (H) (50.0 inch diagonal)				
Aspect ratio	16:9 (wide)				
Weight	45.0 kg / 99.2 lbs				
Outer dimensions	121.2 (W) x 72.6 (H) x 9.8 (D) cm 47.7 (W) x 28.6 (H) x 3.9 (D) inch				
Power supply	220–240 VAC 50/60 Hz (W/E/A) 120 VAC 50/60 Hz (U)	)			
Current rating	2.6–1.9 A (W/E/A) 4.8 A (U)	2.7–2.0 A (W/E/A) 4.9 A (U)	2.6–1.9 A (W/E/A) 4.8 A (U)		
Number of pixels	1366 (H) x 768 (V)		·		
Display modes	Video, S-video input: Norma	l/Wide1/Wide2/Zoom1/Zoom2			
	RGB: Norma	l/Wide/Zoom			
Colors	16.77 million				
Sound output	-	— 2.5 W + 2.5 W (EIAJ), 8 Ω			
Speaker	2-internal				
External equipment terminals					
Video input terminals	VIDEO1 INPUT (Video input)	1 BNC terminal	1 Vp-p/75 Ω		
	VIDEO2 INPUT (S-video input)	1 S terminal	Y:         1 Vp-p/75 Ω           C:         0.286 Vp-p/75 Ω		
Applicable systems	NTSC/PAL/SECAM/PAL60/4.43	3NTSC			
PC input terminal	Picture Synchr	b, 3 rows, 15-pin e signal: 0.7 Vp-p/75 Ω ronization signal:TTL level erminal x 5 R: 0.7 Vp-p/75 Ω G: 0.7 Vp-p/75 Ω B: 0.7 Vp-p/75 Ω H: TTL Level or Al V: TTL Level or Al			
Sound terminals	2 sound input pin jacks (L/R) (3 lines) 500 mVrms/at least 22 kΩ				
Control terminal	1 RS-232C connector (D-sub 9-pin)				
External speaker output terminal		Effective max. output: 10 W + 10 W (EIAJ), 8 Ω	_		
Operating conditions	Temperature:         0 to 40 °C / 32 to 104 °F           Humidity:         20 to 80 %				
Accessories	1 remote control, 2AA batteries, 2 small ferrite cores (P50XCA11	1 instruction manual, 1 power cabl	e, 2 big ferrite cores,		

# Regulation --- P50XCA10W/E/A/U, P50XCA11W/E/A/U, P50XCA12W/E/A/U • UL, CSA Safety: UL6500, C-UL EMC: FCC Part 15 Class A, ICES-003 Class A • CE Safety: EN60065

• CE	Safety:	EN60065	
	EMC:	EN55022	1998, Class A
		EN61000-3-2	1995
		EN61000-3-3	1995
		EN55024	1998
		EN61000-4-2	1995
		EN61000-4-3	1996
		EN61000-4-4	1995
		EN61000-4-5	1995
		EN61000-4-6	1996
		EN61000-4-8	1993
		EN61000-4-11	1994
• AS	Safety:	IEC60065	

EMC: AS/NZS 3548

Model	P42VCA20W/E/A/U	P42VCA21W/E/A/U	P42VCA22W/E/A/U		
Screen size	42" wide screen: 92.0 cm (W) x 51.8 cm (H) (106.0 cm diagonal) 36.3 inch (W) x 20.4 inch (H) (41.6 inch diagonal)				
Aspect ratio	16:9 (wide)				
Weight	29.5 kg / 65.0 lbs				
Outer dimensions	103.5 (W) x 64.0 (H) x 8.5 (D) cm 40.7 (W) x 25.2 (H) x 3.3 (D) inch				
Power supply	220–240 VAC 50/60 Hz (W/E/A), 120 VAC 50/60 Hz (U)				
Current rating	1.7–1.4 A (W/E/A) 4.2 A (U)	1.8–1.5 A (W/E/A) 4.3 A (U)	1.7–1.4 A (W/E/A) 4.2 A (U)		
Number of pixels	852 (H) x 480 (V)				
Display modes	Video, S-video input: Normal/Wide1/Wide2/Zoom1/Zoom2				
	RGB: Normal/Wide/Zoom				
Colors	16.77 million				
Sound output	-	_	2.5 W + 2.5 W (EIAJ), 8 Ω		
Speaker			2-internal		
External equipment terminals					
Video input terminals	VIDEO1 INPUT (Video input)1 BNC terminal1 Vp-p/75 Ω				
	VIDEO2 INPUT (S-video input)1 S terminalY:1 Vp-p/75 $\Omega$ C:0.286 Vp-p/75 $\Omega$				
Applicable systems	NTSC/PAL/SECAM/PAL60/4.43NTSC				
PC input terminal	RGB1 inputmD-sub, 3 rows, 15-pin Picture signal: $0.7 \text{ Vp-p/75 }\Omega$ Synchronization signal:TTL levelRGB2 inputBNC terminal x 5R: $0.7 \text{ Vp-p/75 }\Omega$ G: $0.7 \text{ Vp-p/75 }\Omega$ B: $0.7 \text{ Vp-p/75 }\Omega$ H: TTL Level or ANALOG (75 $\Omega$ ) V: TTL Level or ANALOG (75 $\Omega$ )				
Sound terminals	_	2 sound input pin jacks (L/R) (3 lines) 500 mVrms/ at least 22 kΩ			
Control terminal	1 RS-232C connector (D-sub 9-pin)				
External speaker output terminal		Effective max. output: 10 W + 10 W (EIAJ), 8 Ω	_		
Operating conditions	Temperature:         0 to 40 °C / 32 to 104 °F           Humidity:         20 to 80 %				
Accessories	1 remote control, 2AA batteries, 1 instruction manual, 1 power cable, 2 big ferrite cores, 2 small ferrite cores (P42VCA21)				

#### Regulation --- P42VCA20W/E/A/U, P42VCA21W/E/A/U, P42VCA22W/E/A/U

 UL, CSA Safety: UL6500, C-UL EMC: FCC Part 15 Class A, ICES-003 Class A
 CE Safety: EN60065 EMC: EN55022 1998, Class A 1998, Class A 1995 1995 EN61000-3-2 EN61000-3-3 EN55024 1998 EN61000-4-2 1995 EN61000-4-3 EN61000-4-4 EN61000-4-5 1996 1995 1995 EN61000-4-6 1996 EN61000-4-8 1993 EN61000-4-11 1994

• AS Safety: IEC60065 EMC: AS/NZS 3548

• Specifications and external appearance may be change for the sake of improvement.

• Plasmavision is a worldwide trademark of Fujitsu General Limited and is a registered trademark in Japan, the U.S.A. and other countries or areas.

#### Precautions

Be sure to remove the power plug from the receptacle before cleaning the display.

Be sure not to clean the display using a cloth dampened with volatile solvents, such as benzene or thinner. Such solvents can harm the display's cabinet, the filter at the screen front, and the remote control. They can also cause paint to come off these sections.

#### **Cleaning the Screen**

Clean the screen gently with a soft cloth. The screen surface is fragile. Never attempt to clean it with a hard material, press on it forcefully, or tap it.

#### **Cleaning the Cabinet and Remote Control**

Use a soft cloth for cleaning.

If the cabinet or remote control is heavily stained, soak a soft cloth in a mixture of water and detergent and squeeze it dry before wiping off the stains. Use a soft, dry cloth for final cleaning.

#### **Cleaning the ventilation grille**

Remove dust from the ventilation grille in the rear of the main unit periodically with a vacuum cleaner as the accumulated dust can increase the internal temperature of the main unit causing machine failure or fire hazard.

# HANDY TIPS

In the event of problems with the display, check the following explanations before contacting your dealer for servicing.

Problem	Action	
• Power does not turn ON.	• Check whether the power plug is securely inserted into the receptacle.	
• No pictures are displayed.	<ul> <li>Check cables for disconnection.</li> <li>Check whether the power for all input equipment is ON.</li> <li>Check for connection to wrong terminals or for wrong input mode.</li> <li>Check whether the input mode display is colored pink.Special setup may have been made. Return to original setup or initialize the User adjustment value.</li> </ul>	
Remote control does not function properly.	<ul> <li>Check for incorrect battery orientation.</li> <li>Check for dead batteries.</li> <li>Check for distance from the display.</li> <li>Check whether you are pointing the remote control transmitter properly at the display's receiver.</li> <li>Check for any obstacle between the remote control and the display.</li> </ul>	
• The display makes a snapping sound.	• This sound is produced when the cabinet expands or contracts due to variations in temperature. This sound does not indicate that the display has a problem.	
• The display makes a buzzing sound.	• The display has fans to maintain the temperature of internal components at a constant level. This sound is produced by the fan as it rotates.	
• There are spots on the screen.	• Check whether your AV equipment is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.	
Degraded colors/tints	• Check whether all picture adjustments have been properly made. (See "Adjusting Pictures" on P. E-20–E-21.)	
Improper screen position/size	• Check whether screen position and size have been properly adjusted. (See "Adjusting Screen Position and Size" on P. E-22–E-23.)	
• No sound from external speakers	Check cables for disconnection.	
• No sound	• Check whether you have selected "No Audio" for the "Audio Input" setting. (See "Features" on P. E-30.)	
• If "Invalid operation" appears.	• Check whether you have selected "Input Priority".(See "Features" on P. E-31.)	
<ul> <li>If "Out of range" appears, the display is receiving a signal whose picture or signal cannot be reproduced by the display.</li> <li>The screen turns to black and white.</li> </ul>	• Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA / XGA / UXGA, 75 Hz or less for SXGA.	
• If "Error message Condition 1" appears, the fan is defective.	• Remove the power plug from the receptacle, and contact your dealer for repairs.	
• If "Error message Condition 2" appears, the display's internal components are extremely hot.	• Remove the power plug from the receptacle. (You can turn the power back ON again when the components have cooled sufficiently.) If the message appears again when you turn the power back on, remove the power plug from the receptacle, and contact your dealer for a repairs.	
• If "Change refresh rate to 60Hz"appears,	• The picture may get blurred with vertical frequency of other than 48.3-51.8 or 58.4-61.4 (Hz). Change the setting of your PC, etc.	
• If the power indicator lamp flashes red.	<ul> <li>Remove the power plug from the receptacle, and inform your dealer about how the lamp flashed.</li> <li>As explained below, the power indicator lamp flashes differently depending on the type of problem: <ul> <li>Flashes repeatedly: Improper supply voltage level</li> <li>Flashes once: Malfunction by the fan</li> <li>Flashes twice: Excessive temperature</li> <li>Flashes three times or more: Other problems</li> </ul> </li> </ul>	